

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
25 March 2004 (25.03.2004)

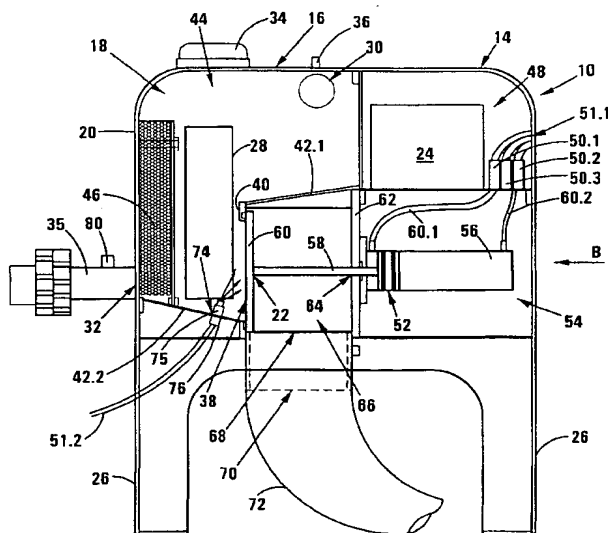
PCT

(10) International Publication Number  
**WO 2004/025053 A1**

- (51) International Patent Classification<sup>7</sup>: **E04H 4/16**, (74) Agent: **PLA-PILLANS, Philip, Antonio**; Adams & Adams Cape Town Office, Suite 3203, 32nd Floor, ABSA Centre, Heerengracht (ZA).
- (21) International Application Number: **PCT/IB2003/003687** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 3 September 2003 (03.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2002/7378 13 September 2002 (13.09.2002) ZA (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicants and  
(72) Inventors: **HOAL, John, Andrew, Valentine** [ZA/ZA]; Smoky Ridge Farm, Crammix Road, Brackenfell, 7500 Cape Town (ZA). **LAMBRICK, David, Robert** [ZA/ZA]; 3 Aandwind Street, Kirstenhof, 7945 Cape Town (ZA).
- Published:  
— with international search report

[Continued on next page]

(54) Title: A LEAF TRAP DEVICE



(57) Abstract: A leaf trap device 10 for use with a water recirculation system including a pump and a water filter, for a swimming pool, comprises a housing structure 14 including a tank compartment 18, a filter device 20 mounted within the compartment 18, a discharge valve 22 and a control unit 24. The tank compartment 18 has a water inlet opening 30 and a water outlet opening 32. The control unit 24 is operable to control the operation of the pump and the discharge valve 22. The filter device 20 separates leaves from water entering the compartment 18. The leaves are collected in the tank compartment 18. The control unit 24 switches off the pump and opens the discharge valve 22 at regular time intervals allowing leaves to be discharged from the tank compartment 18.

WO 2004/025053 A1

**WO 2004/025053 A1**



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*